# *Slant/Fin*

# Hydronic Explorer 2

## User Manual

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# *Introduction*

Slant/Fin's Hydronic Explorer 2 performs fast and accurate heat loss calculations and helps you select the right boiler, baseboard, and radiant heating components for each job. It is easy to use, and, whether the job is to provide heating for a single room or for a multilevel structure, the procedure is always the same: you simply enter the required data for each room, and Hydronic Explorer 2 does the rest.

To further help you in selecting the right equipment, Slant/Fin's Hydronic Explorer 2 allows you to view product literature on boilers, baseboard, and radiant tubing with the simple click of your mouse button.

## Using Hydronic Explorer 2

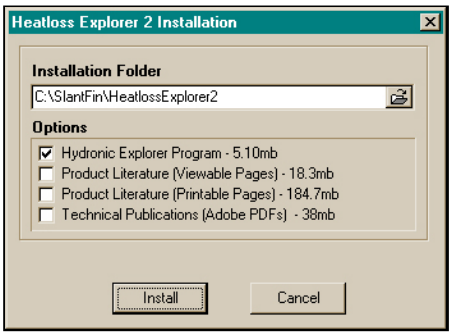
Hydronic Explorer 2 requires little computer experience. If you already know how to use a keyboard and mouse, you are well on your way. If necessary, refer to your computer manual for instructions on how to operate these devices.

## Installing Hydronic Explorer 2

Hydronic Explorer 2 is intended for use on a personal computer using Microsoft Windows. To install, do the following:

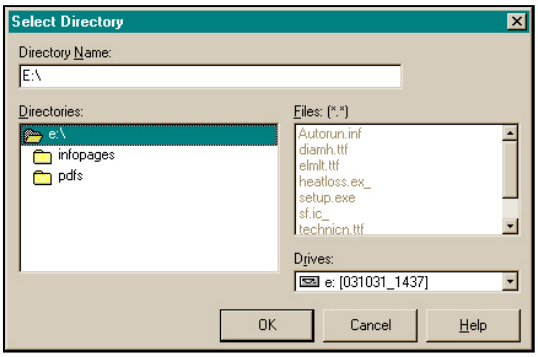
1. Insert the CD into your CD-ROM drive. After agreeing to the terms of use of the software, the *Install* screen will automatically appear with Hydronic Explorer 2 Program already selected. You may also select the product literature and technical publication files if you wish to install them on your computer (recommended).

2. Click the **Install** button. The software will be installed in the folder shown and the Slant/Fin Hydronic Explorer 2 icon will appear on your desktop.




**Install Screen**

*Note: If you want to install to a different path, simply type in the new path in the **Installation Folder** box in the Main Menu. Alternatively, click on the open folder icon to display the Select Directory dialog box. Select the drive and the path in the **Drives** and **Directories** boxes and click **OK**.*. Otherwise, simply use the default setting.




**Select Directory**

If the *Install* screen fails to appear after inserting the CD into your CD-ROM drive, do the following:

1. Click the **Start** button on the taskbar, then click **Run**.
2. In the **Open** box, type the drive letter of your CD-ROM followed by a colon and a backslash, then "setup.exe" (omit the quotation marks). For example, if the drive letter for your CD-ROM is D, you would type: **D:\setup.exe**.
3. Click **OK**. When the *Install* screen appears, click **Install**.

# Starting Hydronic Explorer 2

## Opening the Main Menu

You can start Hydronic Explorer 2 by double-clicking on the Slant/Fin Hydronic Explorer 2 icon on your desktop, or you can do the following:

1. Click the **Start** button on the taskbar, and then point to Programs.
2. Point to Slant/Fin and click on Hydronic Explorer 2.

The *Main Menu* screen is displayed allowing you to choose the following:

**Main Menu**

- Heat Loss Express – opens the *Heat Loss Express* screen. This allows you calculate the heat loss of individual rooms, floors, and the entire structure and continues to help you select boiler, baseboard, and radiant heating products.
- Boiler Selector – allows you to select a Slant/Fin boiler if you already know the heat loss.
- Product Literature – allows you to view product pages for boilers, baseboard, and radiant tubing.
- Technical Publications – provide installation and service information for Slant/Fin boilers.

You can also search for available updates and automatically install them via your internet connection by clicking on **Check for updates** on top of the main menu.

To exit Hydronic Explorer 2, click the **X** in upper right corner of the screen.

Each of the selections is discussed in the following sections of this manual.

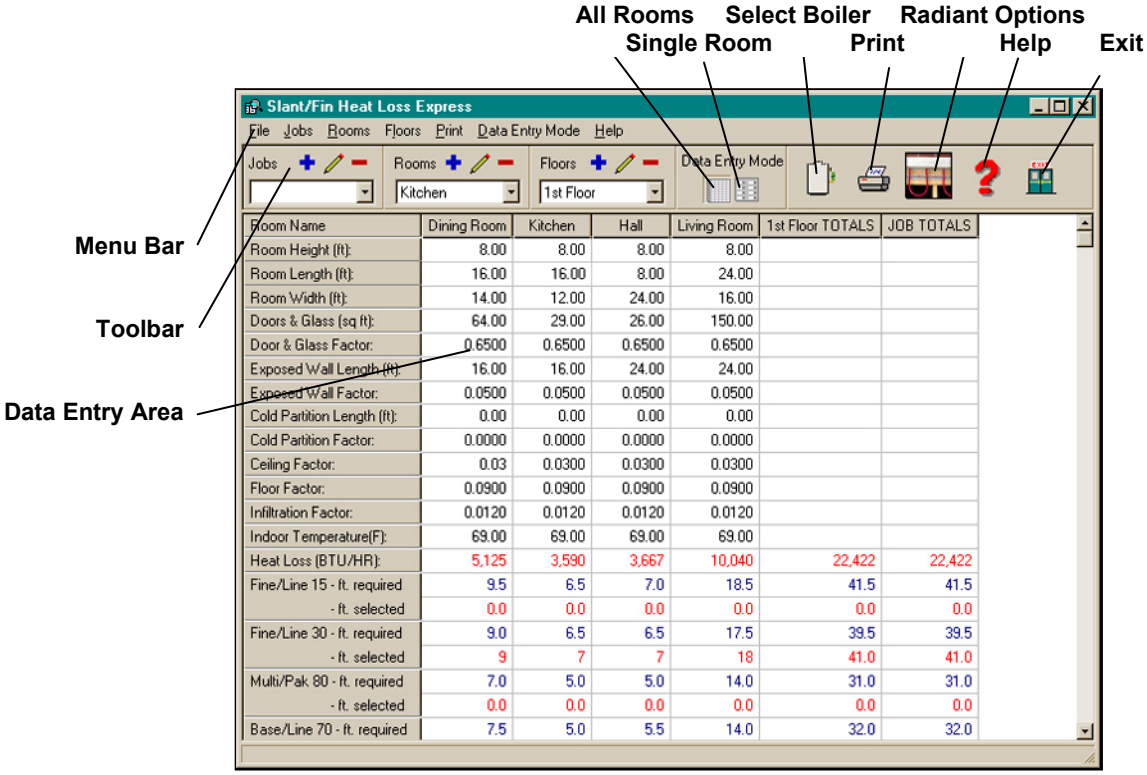
# Heat Loss Express

## Purpose

The primary objective of Hydronic Explorer 2 is to help you design a heating system that will provide the required heating comfort for a specific job. The first step towards this goal is to determine the structure's heat loss (Btu/hour). Construction, outside temperature, and indoor temperature are significant factors in this calculation. The second step is selecting the proper boiler and radiation that will compensate for the heat loss and maintain the indoor temperature at the required level.

## Heat Loss Express

The *Heat Loss Express* screen is your main work area. It is divided into three sections: the menu bar, the toolbar, and the Data Entry Area. You choose commands from the menu bar or the toolbar, and you enter room data in the Data Entry Area. This area also displays the heat loss calculations based on your data and helps you select the proper heating equipment.




| Room Name | Dining Room | Kitchen | Hall | Living Room | 1st Floor TOTALS | JOB TOTALS |
|---|---|---|---|---|---|---|
| Room Height (ft): | 8.00 | 8.00 | 8.00 | 8.00 | | |
| Room Length (ft): | 16.00 | 16.00 | 8.00 | 24.00 | | |
| Room Width (ft): | 14.00 | 12.00 | 24.00 | 16.00 | | |
| Doors & Glass (sq ft): | 64.00 | 29.00 | 26.00 | 150.00 | | |
| Door & Glass Factor: | 0.6500 | 0.6500 | 0.6500 | 0.6500 | | |
| Exposed Wall Length (ft): | 16.00 | 16.00 | 24.00 | 24.00 | | |
| Exposed Wall Factor: | 0.0500 | 0.0500 | 0.0500 | 0.0500 | | |
| Cold Partition Length (ft): | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Cold Partition Factor: | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | |
| Ceiling Factor: | 0.03 | 0.0300 | 0.0300 | 0.0300 | | |
| Floor Factor: | 0.0900 | 0.0900 | 0.0900 | 0.0900 | | |
| Infiltration Factor: | 0.0120 | 0.0120 | 0.0120 | 0.0120 | | |
| Indoor Temperature(F): | 69.00 | 69.00 | 69.00 | 69.00 | | |
| Heat Loss (BTU/HR): | 5,125 | 3,590 | 3,667 | 10,040 | 22,422 | 22,422 |
| Fine/Line 15 - ft. required | 9.5 | 6.5 | 7.0 | 18.5 | 41.5 | 41.5 |
| - ft. selected | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fine/Line 30 - ft. required | 9.0 | 6.5 | 6.5 | 17.5 | 39.5 | 39.5 |
| - ft. selected | 9 | 7 | 7 | 18 | 41.0 | 41.0 |
| Multi/Pak 80 - ft. required | 7.0 | 5.0 | 5.0 | 14.0 | 31.0 | 31.0 |
| - ft. selected | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Base/Line 70 - ft. required | 7.5 | 5.0 | 5.5 | 14.0 | 32.0 | 32.0 |

**Heat Loss Express Screen**

To open the *Heat Loss Express* screen, do the following:

1. Double-click on the Slant/Fin Hydronic Explorer 2 icon on your desktop. The *Main Menu* screen is displayed.

2. Click on **Heat Loss Express**. The *Heat Loss Express* screen appears.

*Note: The first time you open Hydronic Explorer 2, an introductory screen is displayed. You can check the box on the bottom of the screen to prevent it from displaying again. Click the **X** in the upper right corner to proceed to the Main Menu.*

The following describes the *Heat Loss Express* screen's menu bar, toolbar, and Data Entry Area:

## Menu Bar

The following menus are available in the menu bar:

- File – allows you to exit the program.
- Jobs – allows you to create new jobs, make corrections by editing existing jobs, delete a job, import job data, and export job data.
- Rooms – allows you to create new rooms, change the room name, or delete a room.
- Floors – allows you to create new floors, change the floor name, or delete a floor.
- Print – allows you to obtain a hardcopy printout of your work.
- Data Entry Mode – when you select *All Rooms*, you view all the rooms of a selected floor at the same time. When you select *Single Room*, the *Single Room* screen is displayed allowing you view one room at a time.
- Help – opens a menu where you can either open the Hydronic Explorer 2 User Manual (this document) for information to help you run the Hydronic Explorer 2 programs, or if you are connected to the Internet, access the Hydronic Explorer 2 website located at www.slantfin.com/he2. The user's manual is a pdf format document, which requires Adobe Acrobat Reader for viewing or printing.

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## Toolbar

You can choose commands more quickly by simply clicking on the appropriate icon in the toolbar.

- To **add** a job, room, or floor, click on the plus (+) icon.
- To **edit** a job, room, or floor, click on the pencil icon.
- To **delete** a job, room, or floor, click on the minus (-) icon.
- **All Rooms** button (Data Entry Mode) – displays all of the rooms of a selected floor at the same time.

- **Single Room** button (Data Entry Mode) – displays the *Single Room* screen.
- **Select Boiler** button – Displays heat loss calculations for each room based on your entries. This is followed by the *Boiler Selection* screen, which will help you select the right boiler for your job. See the *Selecting a Boiler* section in this manual for additional instructions.
- **Print** button – click to obtain a hardcopy printout of your work.
- **Radiant Options** button – click to display the *Radiant Options Components* screen that allows you to construct a list of Slant/Fin Terra Therma components. See *Selecting Radiant Tubing*.
- **Help** button – opens a menu where you can either open the Hydronic Explorer 2 User Manual (this document) for information to help you run the Hydronic Explorer 2 programs, or if you are connected to the Internet, access the Hydronic Explorer 2 website located at www.slantfin.com/he2. The user's manual is a pdf format document, which requires Adobe Acrobat Reader for viewing or printing.
- **Exit** button – click to return to the *Main Menu*.

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## Data Entry Area

The Data Entry Area is where you will be entering the required data for each room. As you do this, the heat loss calculations will be continuously updated, and the lower portion of the screen will show the baseboard requirements for each room for Fine/Line 15, Fine/Line 30, Multi/Pak 80, Base/Line 70, Base/Line 2000, and Rhino-Cast. You can also determine radiant tubing requirements. This is discussed in *Selecting Radiant Tubing*.

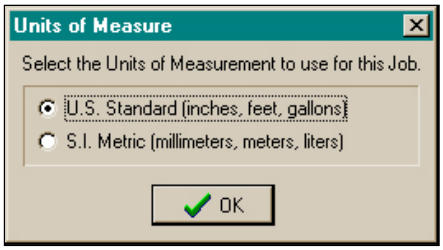
*Note: Unlike other programs you may have used, this program does not require you to save your work. All entries are automatically saved by the system. Should you make an error, you can always edit it or delete it. These procedures are described in more detail later in the manual.*

## Performing Heat Loss Calculations

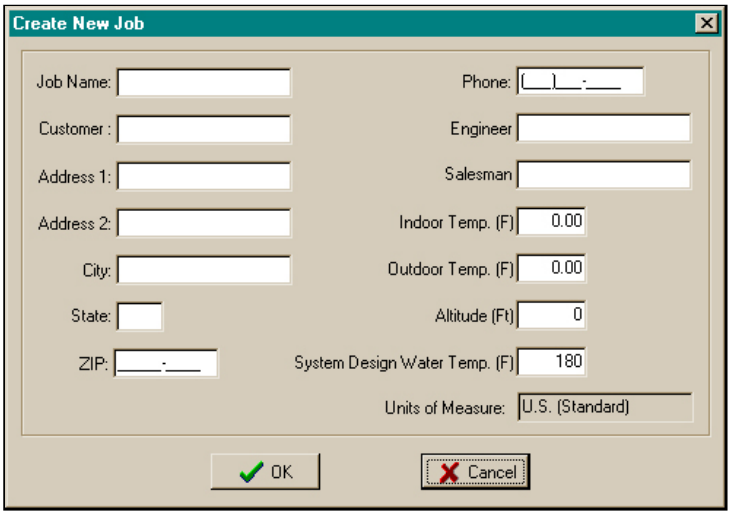
When working on a new project, the first step is to create a new job as follows:

1. In the *Heat Loss Express* toolbar, click on the plus (+) icon in Jobs. The *Units of Measure* dialog box is displayed. **U.S. Standard** is automatically selected.

2. Keep **U.S. Standard** or click on **S.I. Metric**. Click **OK**. The *Create New Job* screen is displayed.


Units of Measure
Select the Units of Measurement to use for this Job.
U.S. Standard (inches, feet, gallons)
S.I. Metric (millimeters, meters, liters)
OK

**Units of Measure**

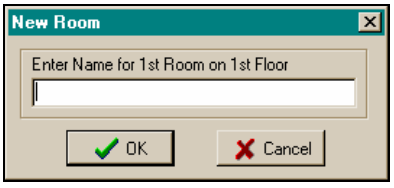



**Create New Job Screen**

Note the following:

- **Indoor Temp**.is the minimum indoor temperature (°F) to be maintained by the heating system.
- You must determine the correct **Outdoor Temp.** (°F) and **Altitude** (Ft.) for use in boiler selection for the job's geographical location. Outdoor design temperature data is available from the Hydronic Institute Division of GAMA in their H-22 Heat Loss Guide. Visit the I=B=R publications page on their website at http://www.gamanet.org/publist/hydroordr.htm to order a copy of H-22.
- The system will automatically enter 180 (°F) as the default value for **System Design Water Temp.** This can be changed if required.

3. Enter all of the required data then click **OK**. The *New Room* screen is displayed.




**New Room Screen**

4. Enter the name of the room on the 1st floor (i.e., kitchen, den, etc.) and click **OK**. The *Heat Loss Express* screen will show three columns:

   - Room Column – this will have the name of the room you just identified, and where you will be entering room-data.
   - 1st Floor Totals – as you add more rooms to this floor, this column will automatically show the total for the entire floor.
   - JOB TOTALS – this column shows the total of all the rooms on all floors.

   As you add more rooms to the floor, the number of columns will increase.

## Adding a Room

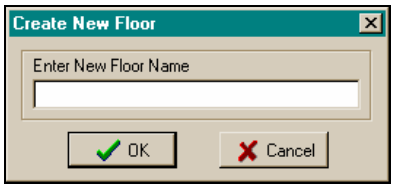
To add more rooms to an existing floor, do the following:

1. Make certain that *Heat Loss Express* is showing the correct floor. To change floors, go to the toolbar and click the down-arrow in Floors. Select the correct floor in the pull-down menu.
2. Click on the plus (+) icon in Rooms. The *New Room* screen is displayed.
3. Enter the name of the room and click **OK**. The *Heat Loss Express* screen will show an additional column for the new room.

## Adding a Floor

To add more floors, do the following:

1. Click on the plus (+) icon in Floors. The *Create New Floor* screen is displayed.
2. Enter the name of the new floor and click **OK**. The *New Room* screen is displayed.
3. Enter the name of the room and click **OK**. The *Heat Loss Express* screen will show the new floor and room.




**Create New Floor Screen**

## Entering Room Data

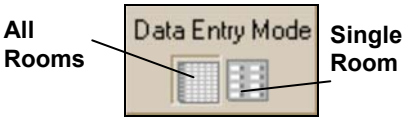
Starting with a specific job, select a floor and enter the required data for each room (each room has its own column). When you have completed all of the rooms, select another floor and repeat the procedure until you have provided data for all of the rooms in the structure. As you enter data, the heat loss and the required length (in feet) of Fine/Line 15, Fine/Line 30, Multi/Pak 80, Base/Line 70, Base/Line 2000 and Rhino-Cast baseboard will be continually updated for each room, floor, and the entire job.

To enter data, select a room and do the following:

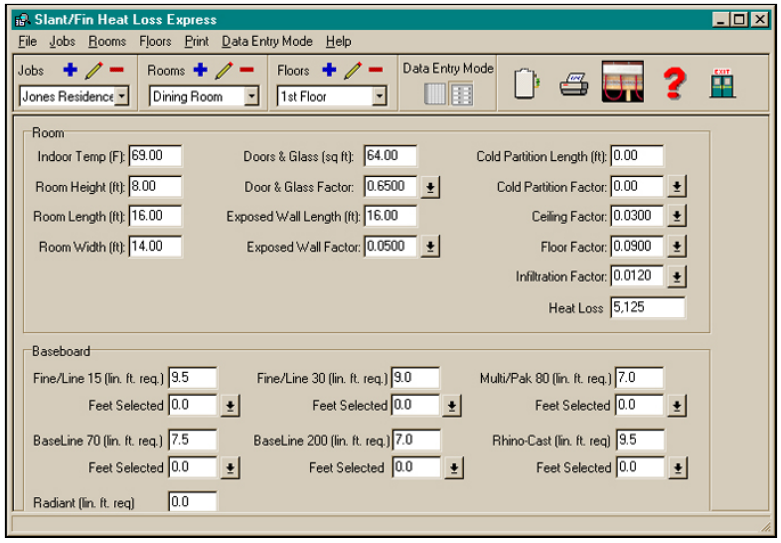
1. Place the cursor at the top of a column and enter the proper value.

2. Move the cursor down to the next cell and repeat. You can use your mouse, the arrow keys or tab key on your keyboard to move around in the *Heat Loss Express* screen.

If you wish to display one room at a time, you can click on the **Single Room** button in Data Entry Mode on the toolbar. The *Single Room* screen will be displayed. To switch back to the "see all rooms" mode, click the All Rooms icon.



**Multi/Single Room**



**Single Room Screen**

You can enter data into all cells by typing in the proper values. In some cells, the system helps you make the necessary calculations or presents you with options then automatically enters the values for you. A calculator icon or down-arrow is displayed when you click in one of these cells.

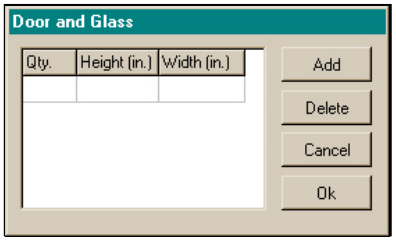
### Room Height, Room Length, and Room Width

Click in each cell and enter the values. All dimensions are in feet.

### Door & Glass (sq ft)

Click inside the cell. A calculator icon is displayed (only when **All Rooms** is selected in the Data Entry Mode). When you click on the icon, the *Door and Glass* dialog box is displayed. Enter the height and width ***in inches*** for all of the windows in the room the click **OK**.

*Note: You enter the height and width in inches, but the Heat Loss Express screen shows the total in square feet.*

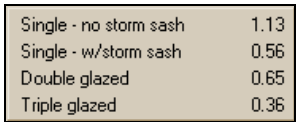



**Door & Glass (sq. ft.)**

Alternatively, you can enter the total square feet of windows and doors directly in the Door & Glass cell.

### Door & Glass Factor

Click inside the cell. A down-arrow is displayed. Click on the arrow and select one of the items shown. The value is automatically inserted.




**Door & Glass Factor**

### Exposed Wall Length

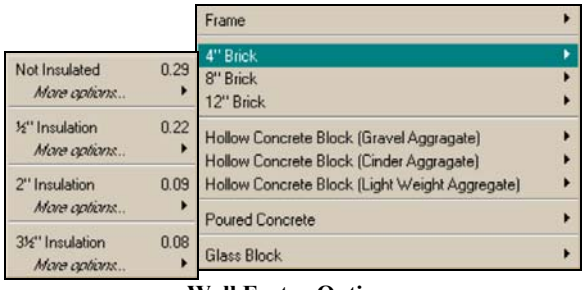
Determine the total length of all walls in the room that are exposed to the outdoors and enter the total (in lineal feet) in this cell.

### Exposed Wall Factor

Click inside the cell. A down-arrow is displayed. Do the following:

1. If you know the factor, you can enter it into the cell; otherwise, click on the down-arrow. The *Wall Factor* pull-down menu is displayed. You are provided with a number of options that refer to the general type of construction.

2. Move your mouse pointer to the proper option. You will be presented with additional options that are related to the amount of insulation. **In most cases, selecting the option with the correct insulation is satisfactory.** Click on an option to select it or point to **More Options** under the




**Wall Factor Options**

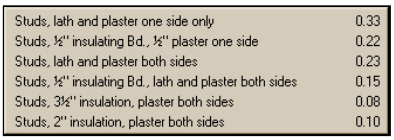
proper insulation thickness to obtain more precise values.

## Cold Partition Length

Determine the length of each wall in the room that is exposed to adjoining unheated areas of the building and enter the total (in feet).

## Cold Partition Factor

Click inside the cell. A down-arrow is displayed. Click on the arrow and select one of the options shown. The proper value is automatically inserted. You can enter a factor, if different from those presented, directly in the cell.


Studs, lath and plaster one side only 0.33
Studs, ½" insulating Bd., ½" plaster one side 0.22
Studs, lath and plaster both sides 0.23
Studs, ½" insulating Bd., lath and plaster both sides 0.15
Studs, 3½" insulation, plaster both sides 0.08
Studs, 2" insulation, plaster both sides 0.10

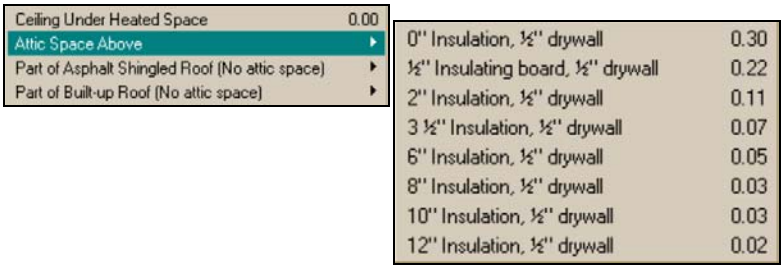
**Cold Partition Factor**

## Ceiling Factor, Floor Factor, and Infiltration Factor

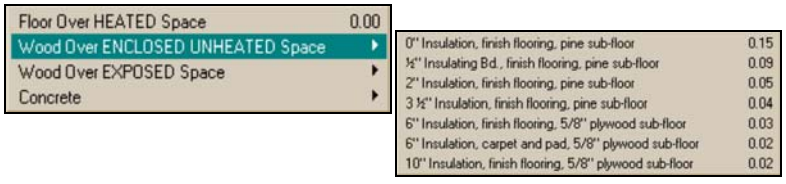
Click inside each cell. A down-arrow is displayed. Do the following:

1. If you know the factor, you can enter it into the cell; otherwise, click on the down-arrow. The factor options are displayed.

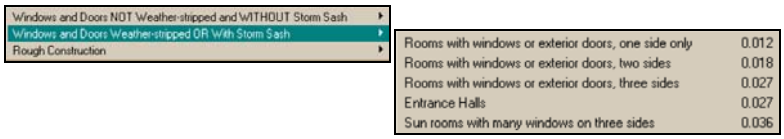
2. Use your mouse to point to one of the options. You will be presented with additional options. Repeat until you find the correct factor and click on it. The proper value will be entered in the *Heat Loss Express* screen. The figures below show examples of finding ceiling, floor, and infiltration factors.


Ceiling Under Heated Space 0.00
Attic Space Above
Part of Asphalt Shingled Roof (No attic space)
Part of Built-up Roof (No attic space)
0" Insulation, ½" drywall 0.30
½" Insulating board, ½" drywall 0.22
2" Insulation, ½" drywall 0.11
3 ½" Insulation, ½" drywall 0.07
6" Insulation, ½" drywall 0.05
8" Insulation, ½" drywall 0.03
10" Insulation, ½" drywall 0.03
12" Insulation, ½" drywall 0.02

**Ceiling Factor**


Floor Over HEATED Space 0.00
Wood Over ENCLOSED UNHEATED Space
Wood Over EXPOSED Space
Concrete
0" Insulation, finish flooring, pine sub-floor 0.15
½" Insulating Bd., finish flooring, pine sub-floor 0.09
2" Insulation, finish flooring, pine sub-floor 0.05
3 ½" Insulation, finish flooring, pine sub-floor 0.04
6" Insulation, finish flooring, 5/8" plywood sub-floor 0.03
6" Insulation, carpet and pad, 5/8" plywood sub-floor 0.02
10" Insulation, finish flooring, 5/8" plywood sub-floor 0.02

**Floor Factor**


Windows and Doors NOT Weather-stripped and WITHOUT Storm Sash
Windows and Doors Weather-stripped OR With Storm Sash
Rough Construction
Rooms with windows or exterior doors, one side only 0.012
Rooms with windows or exterior doors, two sides 0.018
Rooms with windows or exterior doors, three sides 0.027
Entrance Halls 0.027
Sun rooms with many windows on three sides 0.036

**Infiltration Factor**

## Editing and Deleting

You can edit or delete data in *Heat Loss Express* using the following procedures:

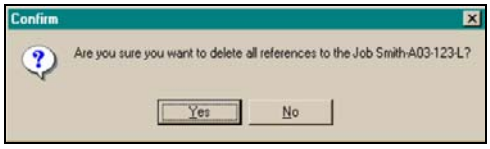
### Jobs

To make corrections to the job description:

1. Move your mouse pointer to **Jobs** in the toolbar and click on the down-arrow. A pull-down menu displays all of the jobs.
2. Select the job you want to edit then click on the pencil icon. The *Edit Job Information* screen is displayed showing all of the job data. It is the same as the *Create New Job* screen.
3. Make the necessary corrections and click **OK**.

To delete a job:

1. Move your mouse pointer to **Jobs** in the toolbar and click on the down-arrow. A pull-down menu displays all of the jobs.
2. Select a job and click on the minus (**-**) icon. A confirmation screen is displayed.
3. Click **OK**. The job is deleted.




**Confirmation Screen**

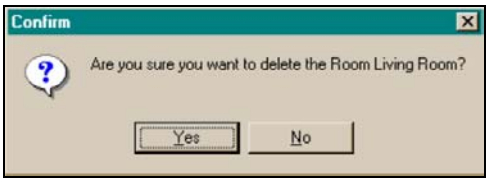
## Rooms

To rename a room:

1. Move your mouse pointer to **Rooms** in the toolbar and click on the down-arrow. A pull-down menu displays all of the rooms.
2. Select a room and click on the pencil icon. The *Edit Room Name* screen is displayed. It is similar to the *New Room* screen.
3. Enter the new name and click **OK**.

To delete a room:

1. Move your mouse pointer to **Rooms** in the toolbar and click on the down-arrow. A pull-down menu displays all of the rooms.
2. Select a room and click on the minus (-) icon. A confirmation screen is displayed.
3. Click **OK**. The room is deleted.




**Confirmation Screen**

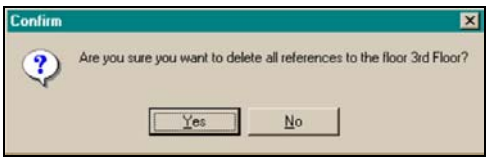
## Floors

To rename a floor:

1. Move your mouse pointer to **Floors** in the toolbar and click on the down-arrow. A pull-down menu displays all of the floors.
2. Select a floor and click on the pencil icon. The *Edit Floor Name* screen is displayed. It is similar to the *Create New Floor* screen.
3. Enter the new name and click **OK**.

To delete a floor:

1. Move your mouse pointer to **Floors** in the toolbar and click on the down-arrow. A pull-down menu displays all of the floors.
2. Select a floor and click on the minus (-) icon. A confirmation screen is displayed.
3. Click **OK**. The floor is deleted.




**Confirmation Screen**

### Room Data

To change data that you entered for a specific room, use the mouse to highlight the existing data inside the cell and type in the new data.

## Selecting Baseboard

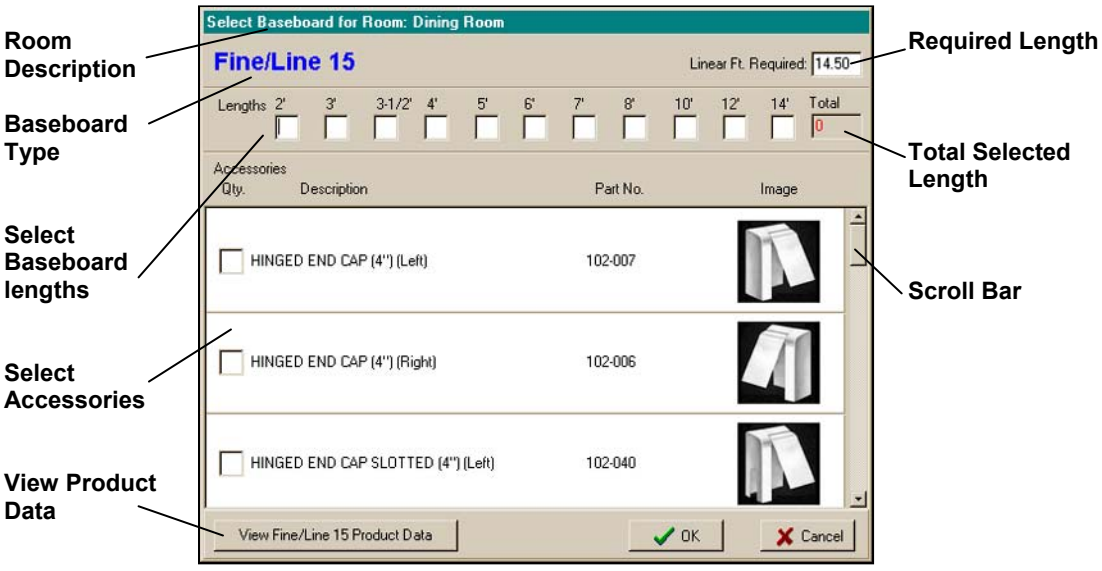
Once you have entered the data for all of the rooms, you can proceed with selecting the proper baseboard.

The *Heat Loss Express* screen shows the required length (in feet) for Fine/Line 15, Fine/Line 30, Multi/Pak 80, Base/Line 70, Base/Line 2000, and Rhino-Cast baseboards for each room. To select baseboard, do the following:

1. For each room, click in the **ft. selected** cell (displaying a red 0.0) of the desired baseboard. A down-arrow will appear.

2. Click on the down-arrow. The *Select Baseboard* screen is displayed. It shows:

   a. The room for which you are selecting baseboard.
   b. The type of baseboard you selected.
   c. The length of baseboard (in linear feet) required.
   d. Available lengths of baseboard.
   e. Available accessories.




**Select Baseboard Screen**

3. For each length of baseboard, enter the quantity. The total length will be displayed. This should equal the required length.

4. Use the scroll bar to view available accessories. Select accessories by clicking on the adjacent box and entering the quantity desired.

   *Note: To view product data literature, click the view button on the bottom of the screen.*

5. When you have made all of your selections, click **OK**. The total length you've selected will be displayed in the *Heat Loss Express* screen.

6. Repeat the above steps for the other rooms.

## Selecting Radiant Tubing

If you intend to install radiant tubing, Hydronic Explorer 2 can help you with the calculations and selection of the necessary components. With the *Heat Loss Express* screen still displayed on your monitor, open the *Radiant Tubing* screen as follows:

1. Select a room and click in the **ft. selected** cell (displaying a red 0.0) of the **Radiant Tubing**. A down-arrow will appear.

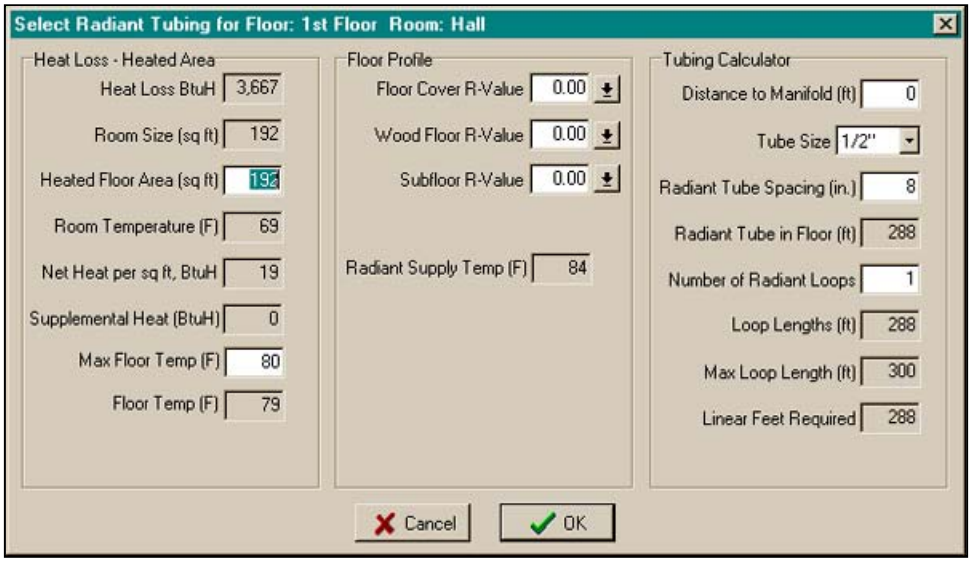
2. Click on the down-arrow. The *Radiant Tubing* screen for the selected room is displayed with default and calculated values already entered.

### Description of the Radiant Tubing Screen

The *Radiant Tubing* screen has two purposes:

- Help select the tube size and required length of tubing in linear feet.
- Indicate how much supplemental heat is required, if any, to maintain the required room temperature.

The *Radiant Tubing* screen is divided into three panes: **Heat Loss – Heated Area**, **Floor Profile**, and **Tubing Calculator**. Each pane shows values already entered into individual boxes. You cannot change the values in the grayed-out boxes. These are automatically entered and are based on the data you entered for the heat loss calculations. You can, however, change the values in the white boxes.


Select Radiant Tubing for Floor: 1st Floor Room: Hall
Heat Loss - Heated Area
Heat Loss BtuH 3,667
Room Size (sq ft) 192
Heated Floor Area (sq ft) 192
Room Temperature (F) 69
Net Heat per sq ft, BtuH 19
Supplemental Heat (BtuH) 0
Max Floor Temp (F) 80
Floor Temp (F) 79
Floor Profile
Floor Cover R-Value 0.00
Wood Floor R-Value 0.00
Subfloor R-Value 0.00
Radiant Supply Temp (F) 84
Tubing Calculator
Distance to Manifold (ft) 0
Tube Size 1/2"
Radiant Tube Spacing (in.) 8
Radiant Tube in Floor (ft) 288
Number of Radiant Loops 1
Loop Lengths (ft) 288
Max Loop Length (ft) 300
Linear Feet Required 288
Cancel
OK

**Radiant Tubing**

## Heat Loss – Heated Area

The **Heat Loss – Heated Area** pane provides the following heat loss related data:

- Heat Loss BtuH – this is the heat loss for the selected room that was calculated in *Heat Loss Express*.
- Room Size (sq ft) – the calculated area of the selected room.
- Heated Floor Area (sq ft) – the actual floor area to be heated. This can be equal to or less (but not greater) than the **Room Size**. For example, if the room has a stairway or a fireplace, subtract the square footage of those areas from the **Room Size**. Enter the total square footage of floor area available for radiant heating in the **Heated Floor Area** cell.
- Room Temperature (F) – the desired room temperature that was entered in the *Create New Job* screen.
- Net Heat per sq ft, BtuH – this is the **Heat Loss** divided by the **Heated Floor Area**. Regardless of the calculation, however, there is a maximum value based on the **Max Floor Temp** value (see below). If this value is not sufficient to heat the room properly, the **Supplemental Heat** box (see below) will show how much heat will be required from an additional source. If practical, you can choose to increase **Max Floor Temp** or provide an additional heating source.
- Supplemental Heat (BtuH) – if the radiant floor heating cannot, by itself, maintain the required room temperature, an additional source (e.g., baseboard) must be installed. This box shows how much heat must be provided by that source.

- Max Floor Temp (F) – this is a value that you enter to limit the floor temperature. If it is too low, the system may not be able to maintain the required temperature. You can increase this value or provide supplemental heat. Choose a value that is appropriate for the type of floor in the room and that will be comfortable for the occupants. Note that this value must be greater than **Room Temperature**; otherwise, the radiant tubing will not generate heat.

- Floor Temp (F) – this is the actual floor temperature that will be maintained by the radiant tubing system. It may be less than or equal to the **Max Floor Temp**.

---

## Floor Profile

The **Floor Profile** pane provides floor profile data. As you change the values for the floor types, the system will recalculate the value in the **Radiant Supply Temp (F)** box. This is the required water temperature necessary to maintain the **Floor Temp** value in the **Heat Loss – Heated Area** pane.

- Floor Cover R-Value – allows you to enter the R-value for the type of floor covering. Certain items, when selected, will result the **Carpet Pad** box being displayed.

- Wood Floor R-Value – allows you to enter the R-value for a "finished" wood floor (if used).

- Subfloor R-Value – allows you to enter the R-value for the subfloor (if applicable). For applications where the tubing is installed in concrete, gypcrete or mortar, select "Tube in Slab" and then the appropriate selection from the sub-menu. If the tubing is installed under the subfloor, select "Tube Below Wood" and then the appropriate selection form the sub-menus. For applications where the tubing is installed above the subfloor using a "dry" installation technique, select the "Luan Underlayment" option.

- Carpet Pad – this box is not displayed when the *Radiant Tubing* screen is opened. It is displayed only when you select certain items in **Floor Cover R-Value**, and it allows you to enter the R-value for the pad type used.

- Radiant Supply Temp (F) – this is the required water temperature, and it will be recalculated as you enter R-values for the above floor types. Values in excess of 150 $^{o}$F will be displayed in red to show that the maximum value has been exceeded. If you cannot change the floor profile, you can lower the value by lowering the **Max Floor Temp** in the **Heat Loss – Heated Area** pane so that **Floor Temp** gets lowered. This may result, however, in requiring supplemental heating. **Note -** changing the tube spacing factor in the Tubing Calculator section does effect this calculation.

---

## Tubing Calculator

The **Tubing Calculator** pane allows you to determine the tubing size and calculate the length of tubing that you require for the installation.

- Distance to Manifold (ft) – enter the distance from one end of the loop to the manifold (leader length). The system will automatically double this in its calculation to allow for the return path.
- Tube Size – the default value is ½", but you can select other sizes. As the value increases, the **Max Loop Length** (see below) increases. Increasing the **Tube Size** may reduce the number of loops (**Number of Radiant Loops**) required.
- Radiant Tube Spacing (in.) – the on-center spacing of the tubing installation. The default value is 8". Normal values are 8" to 10", although 12" is occasionally used. As you increase this value, the **Radiant Tube in Floor** (see below) decreases.
- Radiant Tube in Floor (ft) – the system calculated length of tubing required for each loop. This value can be changed by changing **Radiant Tube Spacing** (see above) or the number of loops in **Number of Radiant Loops** (see below).
- Number of Radiant Loops – the number of loops to be installed. The default value is 1, but you can change this value.
- Loop Lengths (ft) – the total length of each loop. It is calculated as follows: (1) divide **Radiant Tube in Floor** by **Number of Radiant Loops**, (2) double the **Distance to Manifold**, and (3) add it to step 1. The value will be displayed in red if it exceeds the **Max Loop Length** (see below). You can lower the **Loop Lengths** by increasing **Radiant Tube Spacing** or **Number of Radiant Loops**. Alternatively, you can increase the **Max Loop Length** by increasing **Tube Size**.
- Max Loop Length (ft) – the maximum suggested length allowed for each loop. This can be value can be changed by changing **Tube Size**.
- Linear Feet Required – the total length of tubing required for the installation.

## Calculating Radiant Tubing Requirements

This procedure will determine the tube size, tubing length, and requirements for supplemental heating.

1. In the **Heat Loss – Heated Area** pane, do the following:

    a. If the total floor area is not available for radiant floor heating, enter a revised value in the **Heated Floor Area (sq ft)** box. Calculate this value by subtracting the total area of all unheated parts of the floor from the **Room Size (sq ft)**.

    b. Enter a value in the **Max Floor Temp** (F) box. The default value is 80.

2. In the **Floor Profile** pane, enter the proper values as follows:

   a. If you know the **Floor Cover R-Value**, enter it in the box; otherwise, click the down-arrow and select an item from the pull-down menu.

   b. If a finished wood floor is part of the "floor profile" and you know the **Wood Floor R-Value**, enter it in the box; otherwise, click the down-arrow and select an item from the pull-down menu.

   c. If you know the **Subfloor R-Value**, enter it in the box; otherwise, click the down-arrow to display R-value options. Use your mouse to point to one of the options. You will be presented with additional options. Repeat until you find the correct R-value and click on it.

   d. If the **Carpet Pad** box is displayed (depending on which item you selected in **Floor Cover R-Value**) and you know the R-value, you may enter it; otherwise, click the down-arrow and select an item from the pull-down menu.

   *Note: As you enter R-values, the **Radiant Supply Temp** will be recalculated. Do not allow it to exceed 150 $^{o}$F (the value will turn red). To lower its value, you can decrease the **Max Floor Temp** in the **Heat Loss – Heated Area pane**. This may result in a need for supplemental heat.*

3. In the **Tubing Calculator** pane, enter values as follows:

   a. In the **Distance to Manifold (ft)** box, enter the distance from one end of the loop to the manifold. The system will automatically double the value in its calculations to allow for the return path.

   b. Click the down-arrow in the **Tube Size** box to select a different tube size. The default selection is ½".

   c. Enter a value in the **Radiant Tube Spacing (in.)** box.

   d. Enter the number of loops you want to install in the **Number of Radiant Loops** box.

4. Observe if the **Loop Lengths (ft)** value is greater than the **Max Loop Length (ft)** value. It will be displayed in red. If the value is too high, you can lower it by doing any of the following:

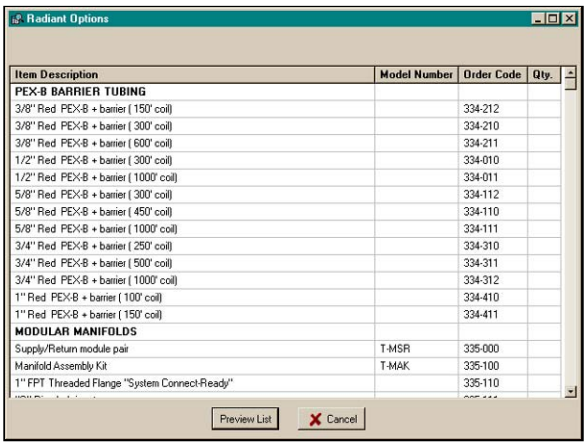
   - Increase the **Tube Size**. This will increase the **Max Loop Length (ft)**.
   - Increase the **Radiant Tube Spacing (in)**. This will decrease the **Loop Length (ft)**.
   - Increase the Number of Radiant Loops. The will decrease the **Loop Length (ft)** of each loop.

5. Before clicking the **OK** button, note the following:

- **Tube Size** and **Linear Feet Required** values for ordering purposes.
- **Supplemental Heat (BtuH)**. If this value is greater than zero, you must install additional heating components (e.g., baseboard).

6. Click **OK**. The radiant tubing length requirement is entered into *Heat Loss Express*.

7. Click the **Radiant Options** icon in the *Heat Loss Express* toolbar. This will display the *Radiant Options Components* screen. It will allow you to select components and indicate the quantities required. Click **Preview** to view all the items you ordered. Click **Save**.


Radiant Options
Item Description
Model Number
Order Code
Qty.
PEX-B BARRIER TUBING
3/8" Red PEX-B + barrier ( 150' coil) 334-212
3/8" Red PEX-B + barrier ( 300' coil) 334-210
3/8" Red PEX-B + barrier ( 600' coil) 334-211
1/2" Red PEX-B + barrier ( 300' coil) 334-010
1/2" Red PEX-B + barrier ( 1000' coil) 334-011
5/8" Red PEX-B + barrier ( 300' coil) 334-112
5/8" Red PEX-B + barrier ( 450' coil) 334-110
5/8" Red PEX-B + barrier ( 1000' coil) 334-111
3/4" Red PEX-B + barrier ( 250' coil) 334-310
3/4" Red PEX-B + barrier ( 500' coil) 334-311
3/4" Red PEX-B + barrier ( 1000' coil) 334-312
1" Red PEX-B + barrier ( 100' coil) 334-410
1" Red PEX-B + barrier ( 150' coil) 334-411
MODULAR MANIFOLDS
Supply/Return module pair T-MSR 335-000
Manifold Assembly Kit T-MAK 335-100
1" FPT Threaded Flange "System Connect-Ready" 335-110
Preview List
Cancel

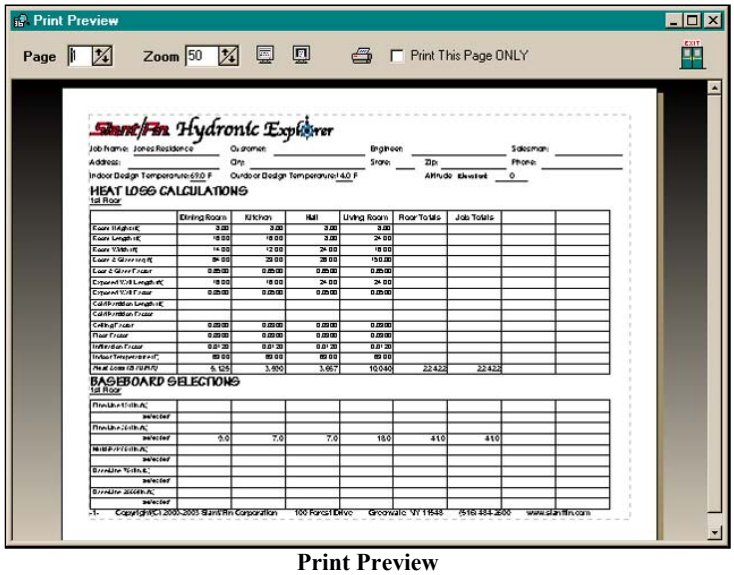
**Radiant Options Components**

## Printing a Hardcopy

To print a hardcopy:

1. In *Heat Loss Express*, click on the **Print** button in the toolbar. The *Print Preview* screen is displayed. It provides one page for each floor and additional pages showing selected boiler, baseboard, radiant calculations, and accessories.

2. Click on the print icon in the toolbar to print a hardcopy.




**Print Preview**

## Exporting and Importing Data Files

Hydronic Explorer 2 creates folders on your computer's hard drive where it saves all of your job data. There may be times when you want to transfer one or more of these files to another computer by transferring them to a floppy disk or CD-ROM or by email. In order to this, you must use the export and import functions.

### Exporting Data Files

Use the export function within *Heat Loss Express* to do the following:

- Transfer files to a floppy disk or CD-ROM (for backup purposes or for transferring data to another computer).

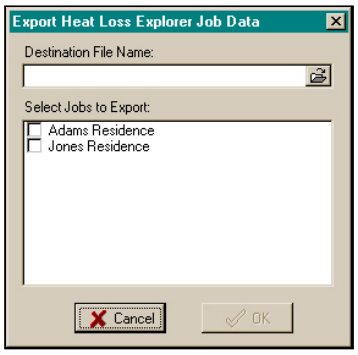
- Transfer files to another folder on the same hard drive. The new file can be attached to an email.

Do the following:

1. Click on **Jobs** in the menu bar and select **Export Job Data**. The *Export* screen is displayed, and it shows the jobs currently saved on your computer.

2. Click the open folder icon in the **Destination File Name** box. The *Browser* screen is displayed.

   *Note: SlantFin Data Files (*.sxp) is automatically entered in the **Files of type** box in the Browser screen.*

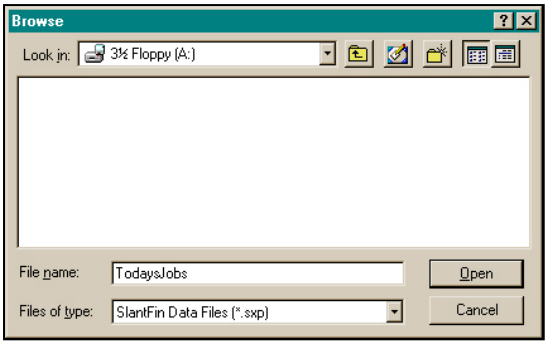



**Export Screen**

3. Click on the down-arrow in the **Look in** box and select a location where the data is to be saved (e.g., floppy disk, CD-ROM, or another folder on the hard drive).

4. Enter a file name in the **File name** box.

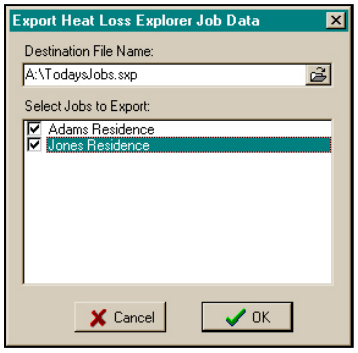
5. Click **Open**. The *Export* screen is displayed.




**Browse Screen**

6. Check the jobs to be exported in the **Select Jobs to Export** box.

7. Click **OK**. All selected jobs will be saved as a single file with the file name and in the location shown in the **Destination File Name** box.




**Export Screen**

## Importing Data Files

Use the import function within *Heat Loss Express* to do the following:

- Transfer files from a floppy disk or CD-ROM (these are files the may have been created on another computer or saved as backup).
- Transfer files from another folder on the same hard drive (these can include files that were emailed to you).

Do the following:

1. Click on **Jobs** in the menu bar and select **Import Job Data**. The *Import* screen is displayed, and it shows the jobs currently saved on your computer.

2. Click the open folder icon in the **Source File Name** box. The *Browser* screen is displayed.

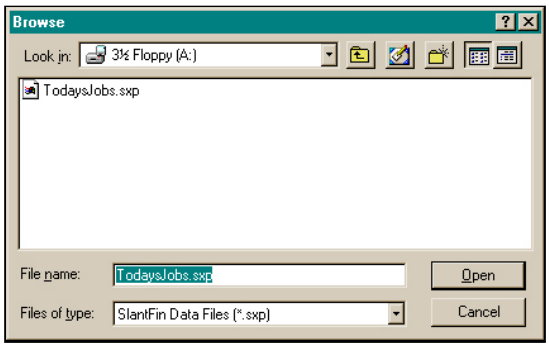
   *Note: SlantFin Data Files (*.sxp) is automatically entered in the **Files of type** box in the Browser screen.*

**Import Screen**

3. Click on the down-arrow in the **Look in** box and find the location where the data is saved (e.g., floppy disk, CD-ROM, or another folder on the hard drive). All saved file names will be displayed.

4. Click on a file name. It is automatically entered in the **File name** box.

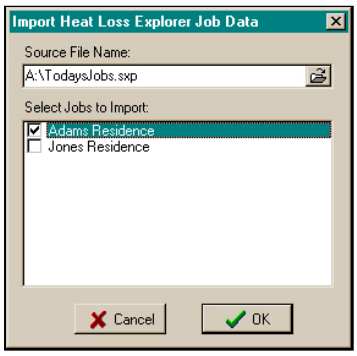
5. Click **Open**. The *Import* screen is displayed.




**Browse Screen**

6. The **Select Jobs to Export** box shows all jobs saved in the file name. Check all the jobs you want to import.

7. Click **OK**. All selected jobs will be imported and appear in the Jobs menu.




**Import Screen**

# Selecting a Boiler

## Finding the Right Boiler

This section helps you select the right boiler for your job. If you already know the building's heating load (heat loss in Btu/hr) and do not need to use *Heat Loss Express* to do the calculations, start at *Heat Load is Known*. If you used *Heat Loss Express* to calculate the building's heat loss (see the previous section) start at *Calculated Heat Load*.

### Heat Load is Known

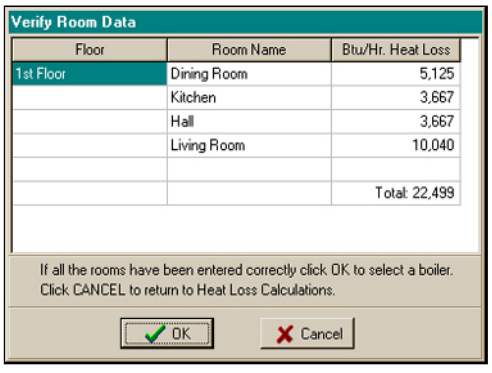
Use the following procedure only if you did not use *Heat Loss Express* to calculate the building's heat load.

1. Double-click on the Slant/Fin Hydronic Explorer 2 icon on your desktop. The *Main Menu* is displayed.
2. Click on **Select a Boiler**. The *Boiler Selection* screen is displayed.
3. Enter the correct load requirement in the **Btu/Hr Load** box.
4. Continue at *Boiler Selection*, below.

### Calculated Heat Load

Use the following procedure only if you used *Heat Loss Express* to do the heat load calculations. At this point, the *Heat Loss Express* screen should be displayed on your computer, and it is showing the heat loss calculations.

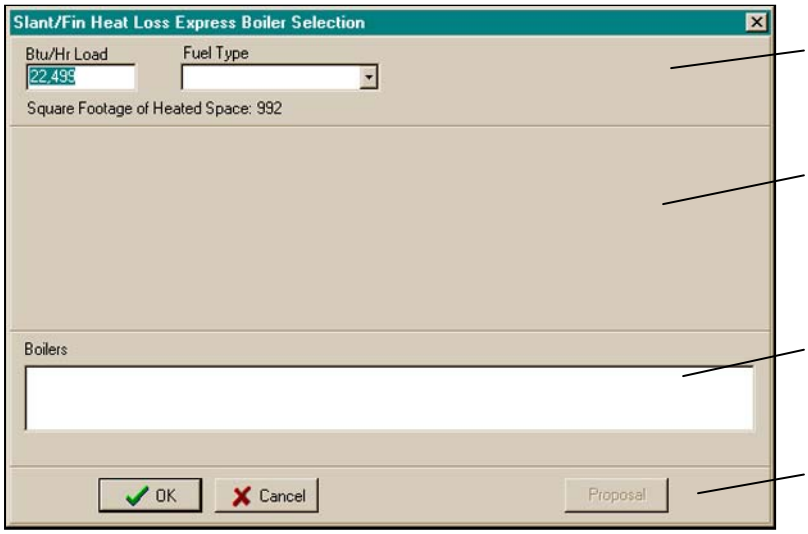
1. Click on the **Select Boiler** icon in the *Heat Loss Express* toolbar. The *Verify Room Data* screen is displayed.
2. If the data is correct, click **OK**. The *Boiler Selection* screen is displayed with the load requirement already entered. Also shown is the calculated square footage to be heated. (If any data in the *Verify Room Data* screen is incorrect, click **Cancel** and make corrections in the *Heat Loss Express* screen.)
3. Continue at *Boiler Selection*, below.




**Verify Room Data Screen**

## Boiler Selection

The *Boiler Selection* screen is divided into four panes. The top pane allows you to enter load requirements (Btu/hr) and the type of fuel to be used. The second pane starts off blank but then requests additional information based on the fuel type you selected. The third pane identifies the boilers that meet your requirements, and the fourth panel allows you to select a boiler, cancel, or generate a proposal.


Slant/Fin Heat Loss Express Boiler Selection
Btu/Hr Load
22,499
Fuel Type
Square Footage of Heated Space: 992
Boilers
OK
Cancel
Proposal
Pane #1: Enter load and fuel type requirements.
Pane #2: Prompts for additional data based on fuel type selected. Also, allows you to view product sheets.
Pane #3: Identifies boilers that meet requirements.
Pane #4: Click OK to accept, Cancel to close screen, or Proposal to generate a proposal.

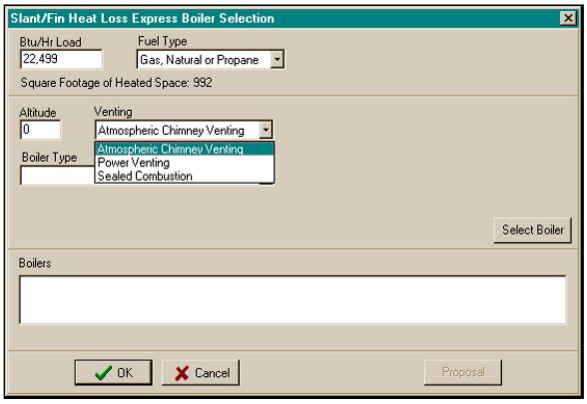
**Boiler Selection Screen**

1. Make certain that a value has been entered into the **Btu/Hr Load** box in pane #1. If there is no value, review section *Heat Load is Known* or *Calculated Heat Load*, above.

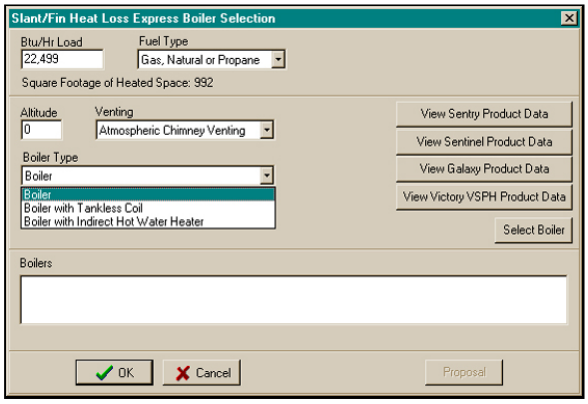
2. In **Fuel Type**, click on the down-arrow. A pull-down menu is displayed showing the fuel type choices (natural or propane gas, oil, dual fuel, or electric). Select a fuel type. Depending on the fuel type you select, pane #2 may request additional information, as shown below.

   *Note: As you make selections in the Boiler Selection Screen, buttons will be displayed in pane #2 allowing you to access relevant product data. You may click on any of these buttons to review the data.*

a. If you select Gas as the fuel type, you will have to enter a value for altitude and select a venting type in pane #2. Enter an altitude value then click on the down-arrow in **Venting** and select a type (atmospheric chimney venting, power venting, or sealed combustion) from the pull-down menu. Click on the down-arrow in **Boiler Type** and select a type from the pull-down menu.

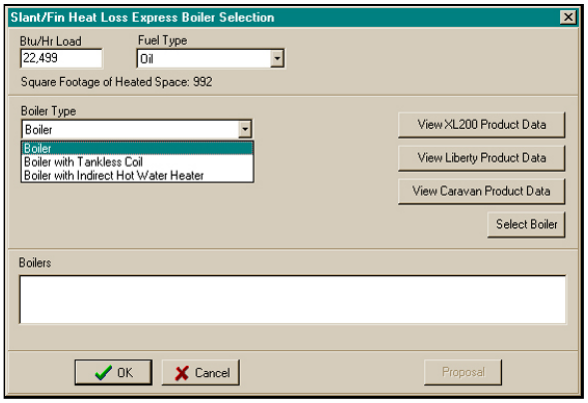



**Natural or Propane Gas**




**Boiler Type**

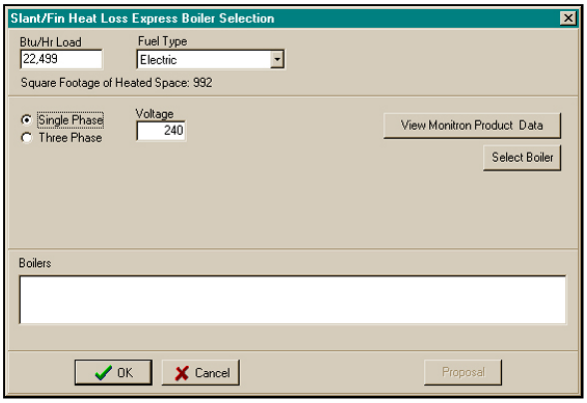
b. If you select Oil as the fuel type, you will have to indicate the boiler type. In pane #2, click on the down-arrow in **Boiler Type** and select a type (boiler, boiler with tankless coil, or boiler with indirect hot water heater) from the pull-down menu.



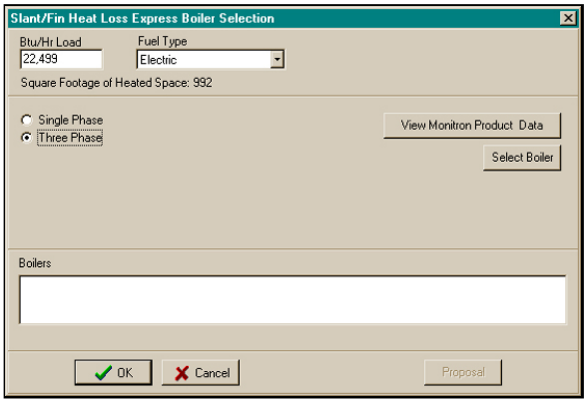

**Oil**

c. You are not required to select a boiler type if you select Dual Fuel as the fuel type.

d. If you select Electric as the fuel type, you will have to indicate if you need single-phase or three-phase by clicking on the appropriate radio button in pane #2. If you select single phase, you must also enter voltage.




**Electric Single-Phase**



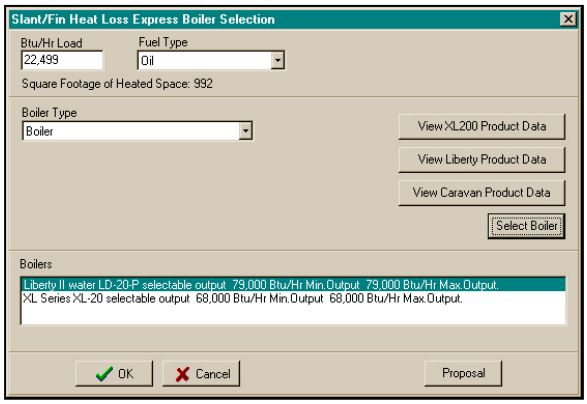

**Electric Three Phase**

3. Click on the appropriate button in pane #2 to view the product sheets for the available boilers.

4. Click **Select Boiler**. Pane #3 will display the available boilers that meet your requirements.

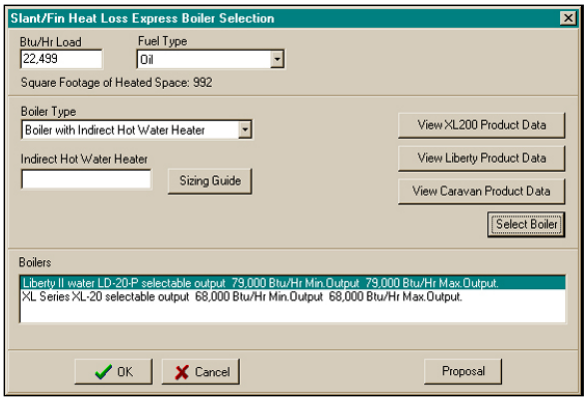
5. Select a boiler in pane #3.

6. If you have not selected a "Boiler with Indirect Water Heater" as the boiler type, you may click **OK** or you may click **Proposal** to generate a proposal (see *Generating a Proposal*) and then click **OK**. If you did select this boiler type, continue to Step 7.




**Selecting Boiler**

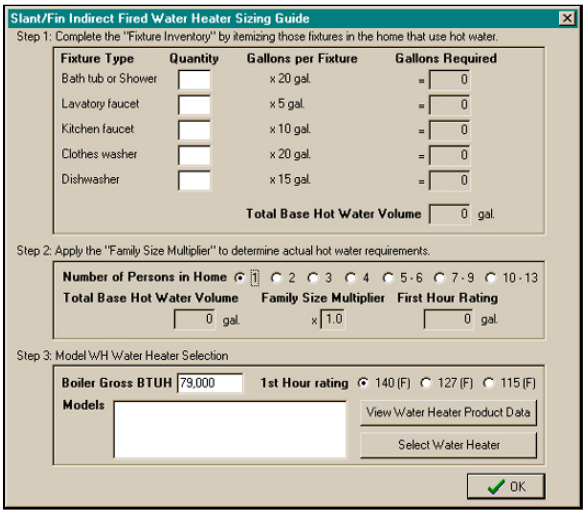
*Note: If you selected a gas or oil burner as the fuel type and then selected "Boiler with Indirect Water Heater" as the boiler type, an* ***Indirect Hot Water Heater*** *box and* ***Sizing Guide*** *button will be displayed.*




**Indirect Hot Water Heater**

7. Click **Sizing Guide**. The *Indirect Fired Water Heater Sizing Guide* is displayed, and it is divided into three steps. Enter the following data:

   *Note: You may click **View Water Heater Product Data** at any time to review data.*




**Sizing Guide**

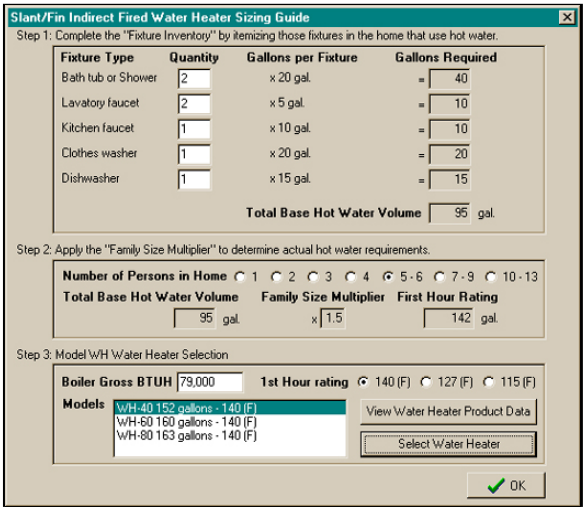
   a. Step 1: For each fixture type, enter a value in the **Quantity** box.

   b. Step 2: Select a number for **Number of Persons in Home**.

   c. Step 3: Select a temperature for **1st Hour Rating**.

   d. Click **Select Water Heater** and select an item in the **Models** box. Click **OK**.

   e. In the *Boiler Selection Screen*, you may click **OK** or you may click **Proposal** to generate a proposal (see *Generating a Proposal*) and then click **OK**.




**Sizing Guide**

## Generating a Proposal

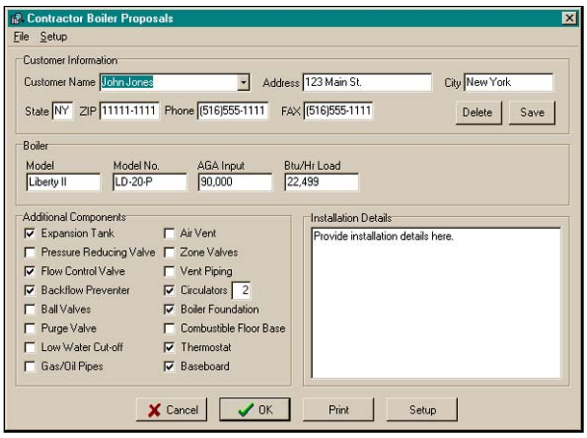
After selecting the boiler, you can have Hydronic Explorer 2 generate a formal proposal for your customer as follows:

1. While still in the *Boiler Selection* screen, click **Proposal**. The *Boiler Proposal* screen is displayed with the boiler data already entered.

2. Enter the customer's name, address, and phone and fax numbers in the appropriate boxes.

3. Check all applicable components in the **Additional Components** frame. When checked, some components, such as circulators, will open a new box so that you can enter the quantity.

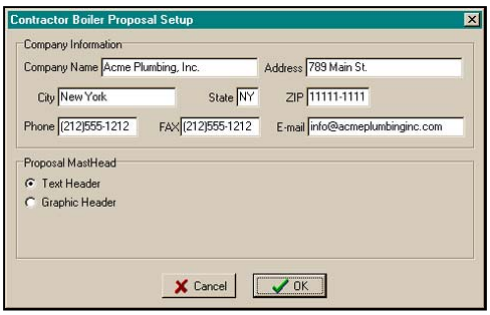
4. Click inside the **Installation Details** box and type in any additional information you want to include in your proposal.




**Boiler Proposal Screen**

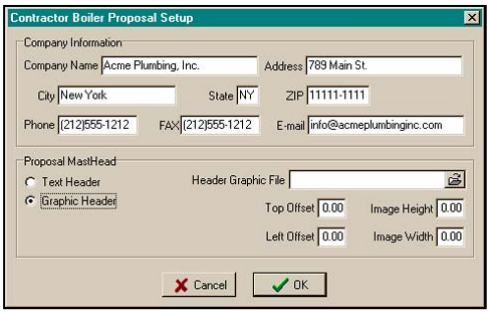
5. Click the **Setup** button (alternatively, you can click **Setup** in the menu bar). The *Proposal Setup* screen is displayed with **Text Header** already selected in the **Proposal MastHead** frame.

6. Enter your company name, address, telephone and fax numbers, and email address in the appropriate boxes and click **OK**. You are returned to the *Boiler Proposal screen*.




**Proposal Setup Screen**

*Note: You can add a graphic, such as your company logo, to the proposal by clicking **Graphic Header** in the **Proposal MastHead** frame. Click the open folder icon in the **Header Graphic File** box. This will open a browser screen to help you locate the graphic in your computer. Enter values in the **Top Offset** and **Left Offset** boxes to position the graphic. Adjust the graphic's dimensions by entering values in the **Image Height** and **Image Width** boxes. Click **OK** to return to the Boiler Proposal screen.*




**Proposal Setup Screen**

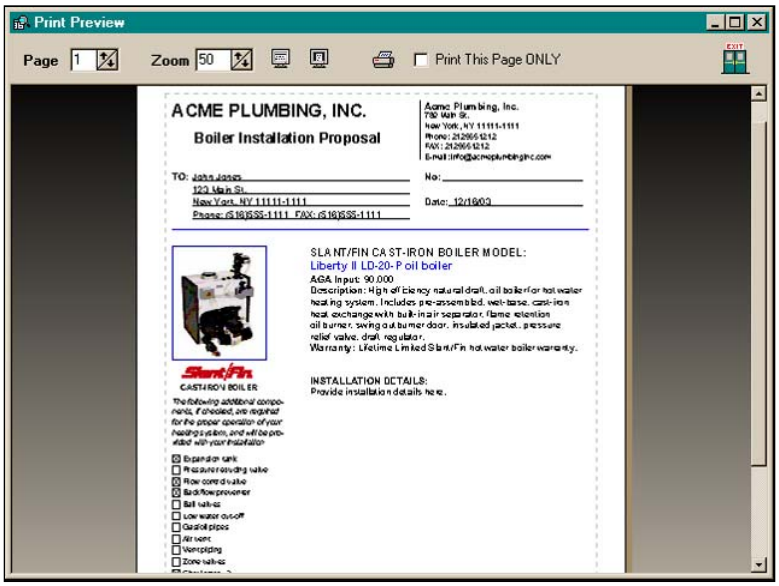
7. Click **Save** in the *Boiler Proposal* screen to save your work.

   *To reopen a saved proposal, click **File** in the menu bar and select a name from the pull-down menu.*

8. Click **Print**. The *Print Preview* screen is displayed showing your proposal.

9. Click on the print icon in the toolbar to print a hardcopy.

10. Click on the exit icon in the toolbar to close the *Print Preview* screen and return to the *Boiler Proposal* screen.




**Print Preview Screen**

11. Click **OK** in the *Boiler Proposal* screen to return to the *Boiler Selection* screen.

12. Click **OK** to close the *Boiler Selection* screen.

# Viewing Product Information

## Obtaining Product Data

Your Hydronic Explorer CD-ROM also contains a product information section with individual pages for most boiler, baseboard, and radiant heating products. Also, complete product literature is provided in pdf format, which requires Adobe Acrobat Reader for viewing. You can install the reader from the Hydronic Explorer CD or visit Adobe's website for the latest version.

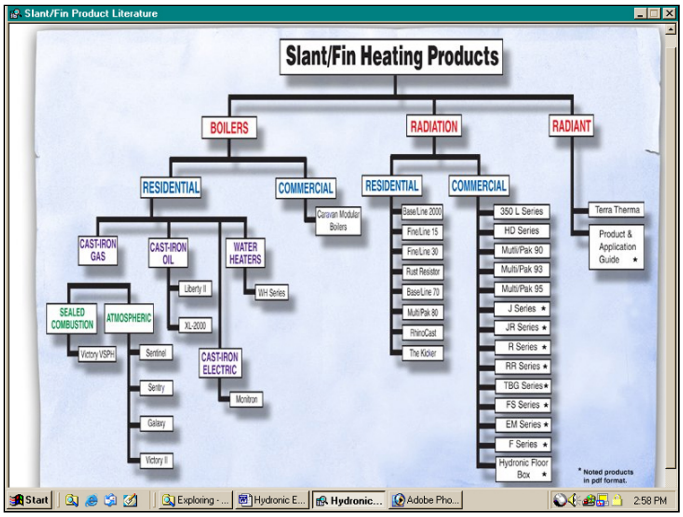
To view product data, do the following:

1. Double-click on the Slant/Fin Hydronic Explorer 2 icon on your desktop. The *Main Menu* is displayed.

2. Click on **Product Literature**. The *Slant/Fin Product Literature* screen appears.

3. Click on a product in the product tree. A single-page product information document will be displayed on your monitor.

   *Note: You may choose to read the document on your monitor or print a hardcopy. There is a link on each product information page to open a pdf document of that product's complete catalog literature.*




**Slant/Fin Product Literature Screen**

# ***Quick Answers***

## Purpose

This section serves as handy reference allowing you to find quick answers to specific questions.

### How do I create, edit, or delete a job?

**Creating a job:**

1. In the *Heat Loss Express* toolbar, click on the plus (+) icon in **Jobs**. The *Create New Job* screen is displayed.
2. Enter all of the required data then click **OK**.

**Editing a job:**

1. In the *Heat Loss Express* toolbar, click on the down-arrow under **Jobs**. A pull-down menu displays all of the jobs.
2. Select the job you want to modify then click on the pencil icon.
3. Make changes in the *Edit Job Information* screen and click **OK**.

**Deleting a job:**

1. In the *Heat Loss Express* toolbar, click on the down-arrow under **Jobs**. A pull-down menu displays all of the jobs.
2. Select a job and click on the minus (-) icon. A confirmation screen is displayed.
3. Click **OK**. The job is deleted.

## How do I add, edit, or delete a floor in my heat loss calculations?

**Adding a floor:**

1. In the *Heat Loss Express* toolbar, click on the plus (+) icon in **Floors**. The *Create New Floor* screen is displayed.
2. Enter the name of the new floor and click **OK**. The *New Room* screen is displayed.
3. Enter the name of the room and click **OK**. The *Heat Loss Express* screen will show the new floor and room.

**Editing a floor:**

1. In the *Heat Loss Express* toolbar, click on the down-arrow under **Floors.** A pull-down menu displays all of the floors.
2. Select a floor and click on the pencil icon. The *Edit Floor Name* screen is displayed.
3. Enter the new name and click **OK**.

**Deleting a floor:**

1. In the *Heat Loss Express* toolbar, click on the down-arrow under **Floors.** A pull-down menu displays all of the floors.
2. Select a floor and click on the minus (-) icon. A confirmation screen is displayed.
3. Click **OK**. The floor is deleted.

## How do I add, edit, or delete a room in my heat loss calculations?

**Adding a room:**

1. In the *Heat Loss Express* toolbar, click on the plus (+) icon in Rooms. The *New Room* screen is displayed.
2. Enter the name of the room and click **OK**.

**Editing a room:**

1. In the *Heat Loss Express* toolbar, click on the down-arrow under **Rooms.** A pull-down menu displays all of the rooms.
2. Select a room and click on the pencil icon. The *Edit Room Name* screen is displayed.
3. Enter the new name and click **OK**.

**Deleting a room:**

1. In the *Heat Loss Express* toolbar, click on the down-arrow under **Rooms.** A pull-down menu displays all of the rooms.

2. Select a room and click on the minus (-) icon. A confirmation screen is displayed.

3. Click **OK**. The room is deleted.

### One of my entries for heat loss calculations is incorrect. How do I change it?

Use your mouse to highlight the entry and type in the new data.

### How do I save my work?

There is no need for you to save your work. The system saves it automatically.

### How can I transfer job data files from my laptop to my PC?

You have to use the export and import functions in *Heat Loss Express*. To transfer files from one computer to another, you can do the following:

1. Start with the computer (laptop) that contains the job data files and do either of the following:

   - Export the files to a floppy disk, CD-ROM, or other storage medium. A new file is created. You can use the floppy or CD to transfer the new file to another computer or serve as backup.

   - Export files to another folder in your computer. A new file is created in that folder. Attach the new file to your email.

2. To transfer files into the receiving computer, do either of the following:

   - Insert the floppy disk or CD-ROM in your computer. Find the saved file and use the import function.

   - Locate the email's attached file. Save it to another folder on your computer and import it from that folder.

### Can I transfer job data files using "copy and paste" or "drag and drop"?

No. You must use the export and import functions in *Heat Loss Express*.

### How do I export job data files?

Open *Heat Loss Express*, and do the following:

1. Click on **Jobs** in the menu bar and select **Export Job Data**. The *Export* screen is displayed.
2. Click the open folder icon in the **Destination File Name** box. The *Browser* screen is displayed. Make certain that "SlantFin Data Files (*.sxp)" is entered in the **Files of type** box.
3. Select a location in the **Look in** box, enter a file name in the **File name** box and click **Open**.
4. In the *Export* screen, check the jobs you want to export and click **OK**.

### How do I import job data files?

Open *Heat Loss Express*, and do the following:

1. Click on **Jobs** in the menu bar and select **Import Job Data**. The *Import* screen is displayed.
2. Click the open folder icon in the **Source File Name** box. The *Browser* screen is displayed. Make certain that "SlantFin Data Files (*.sxp)" is entered in the **Files of type** box.
3. Within the **Look in** box, locate the floppy disk, CD-ROM, or folder where the file is located. Click on the file name (it will be entered into the **File name** box) and click **Open**.
4. In the *Import* screen, check the jobs you want to import and click **OK**.

### How do I select the right boiler for a job?

1. In the Hydronic Explorer 2 *Main M*enu, click on **Boiler Selector**.
2. Enter the required data in the *Boiler Selection* screen. The system will display the boiler(s) that meets your requirements.
3. Choose a boiler and click **OK**.

### How do I select baseboard?

1. Complete the heat loss calculations in *Heat Loss Express*. The system will display required lengths of Fine/Line 15, Fine/Line 30, Multi/Pak 80, Base/Line 70, Base/Line 2000, and Rhino-Cast for each room.
2. For each room, place the cursor in **ft. selected** below the desired baseboard. A down-arrow will appear.
3. Click on the down-arrow. The *Select Baseboard* screen is displayed.
4. Select baseboard lengths and accessories.
5. Click **OK**.

### How do I select radiant tubing?

1. Complete the heat loss calculations in *Heat Loss Express*. The system will display required lengths of radiant tubing for each room.

2. Select a room and click in the **ft. selected** cell of **Radiant Tubing**. A down-arrow will appear.

3. Click on the down-arrow. The *Radiant Tubing* screen for the selected room is displayed with default and calculated values already entered.

4. Enter required data. The system will calculate the length of tubing required for the selected tube size. It will also indicate if supplemental heating is required for the installation

5. Click **OK**.

6. Click on the Radiant Options icon on the *Heat Loss Express* icon. This will display the *Radiant Options Components* screen. It will allow you to select components and indicate the quantities required. Click **Preview** to view all the items you ordered. Click **Save**.

### How can I view Slant/Fin's product literature?

1. In the Hydronic Explorer 2 *Main Menu*, click on **Product Literature**. The *Slant/Fin Product Literature* screen appears.

2. Click on a product in the product tree. A single-page product information document will be displayed on your monitor.

   *Note: You may choose to read the document on your monitor or print a hardcopy. There is a link on each product information page to open a pdf document of that product's complete catalog literature.*

### How can I get a hard copy of Slant/Fin's product literature?

Open the document and click on the print icon.

### What is Adobe Acrobat Reader, and how can I get it?

Adobe Acrobat Reader is used to read portable document format (pdf) files. This is the format in which documentation is stored on the CD-ROM. You can install Adobe Acrobat Reader to your computer from the Hydronic Explorer 2 CD-ROM, or you can download it from Adobe's website.

### How do I get additional assistance using Hydronic Explorer 2?

Visit the Hydronic Explorer website at www.slantfin.com/he2 for tutorials, updates and contact information.